Title (en)

Method and apparatus for controlling a bicycle transmission

Title (de)

Verfahren und Vorrichtung zum Kontrollieren der Fahrradgetriebe

Title (fr)

Procédé et appareil pour contrôler une transmission de bicyclette

Publication

EP 1302396 A3 20050907 (EN)

Application

EP 02023151 A 20021015

Priority

JP 2001316509 A 20011015

Abstract (en)

[origin: EP1302396A2] An apparatus for controlling upshifting and downshifting of a bicycle transmission includes a running condition detecting mechanism that detects a running condition of the bicycle, a threshold value setting mechanism that sets at least one of an upshift threshold value and a downshift threshold value for the running condition, and a control mechanism. The control mechanism provides a signal that commands at least one of an upshift and a downshift when the running condition is beyond the corresponding upshift threshold value and downshift threshold value for a first predetermined time interval. In another embodiment, the control mechanism provides a signal that commands at least one of an upshift and a downshift when the running condition is beyond the corresponding one of the upshift threshold value and the downshift threshold value at both a first detection and a second detection, wherein the second detection occurs after the first detection. The control mechanism provides the signal after the second detection and not in a time interval between the first detection and the second detection. <IMAGE>

IPC 1-7

B62M 25/08; B62J 39/00

IPC 8 full level

F16H 61/28 (2006.01); **B62J 99/00** (2009.01); **B62M 25/08** (2006.01); **F16H 61/02** (2006.01)

CPC (source: EP US)

B62M 25/08 (2013.01 - EP US)

Citation (search report)

- [A] EP 0820923 A1 19980128 - SHIMANO KK [JP]
- [A] US 5059158 A 19911022 - BELLIO STEPHEN [US], et al
- [A] US 4490127 A 19841225 - MATSUMOTO HIROFUMI [JP], et al

Cited by

EP1527990A3

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AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LU MC NL PT SE SK TR

DOCDB simple family (publication)

EP 1302396 A2 20030416; **EP 1302396 A3 20050907**; **EP 1302396 B1 20061206**; AT E347515 T1 20061215; CN 1283939 C 20061108; CN 1412458 A 20030423; DE 60216549 D1 20070118; DE 60216549 T2 20071213; JP 2003120799 A 20030423; TW 533284 B 20030521; US 2003071436 A1 20030417; US 2004051273 A1 20040318; US 6837505 B2 20050104; US 6866279 B2 20050315

DOCDB simple family (application)

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